

CENTROPLAST CENTROPHEN Polyphenylene ether modified

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, Molded

Material Notes:

This material is a lightweight plastic with low moisture absorption, and is impact resistant at low temperatures. Applications include fittings, drive components for domestic appliances, and components for electrotechnical equipment. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROPHEN-Polyphenylene-ether-modified.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.060 %	0.060 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	0.23 %	0.23 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	100 MPa	14500 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	55.0 MPa	7980 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	30 %	30 %	ISO 527-2
Tensile Modulus	2.30 GPa	334 ksi	ISO 527-2
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°F	
Melting Point	290 °C	554 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	90.0 °C	194 °F	Long Term
	105 °C	221 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	115 °C	239 °F	ISO 75-2
Vicat Softening Point	135 °C	275 °F	VST/B/50; ISO 306
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	2.7	2.7	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	19.0 kV/mm	483 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0010	0.0010	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	175 V	175 V	IEC 60112

Descriptive Properties	Value	Comments
Food Compliance	yes	BGVV
	yes	FDA

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